TEJUS
CONSULTANTS

PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	M/S Sathya constructions
Name of Work	:	Asphalting to Roads and Improvements to Drains at Defence Layout and Ashrama Road in ward No 06 Byatarayanapura Sub Division.
No.of Sample Tested	:	3
Date of Testing	:	28.11.2019
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20} 250mm Thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm²)	Correction Factor for the Dia. (Strength of the Core x	Corrected Cylinder Compressive Strength (N/mm²)	Equivalent Cube Compressive Strength (N/mm²)
1	100.00	180.00	3.374	2386.62	1.80	0.960	159.24	20.28	21.90	21.02	26.28
2	100.00	180.00	3.434	2429.06	1.80	0.960	159.32	20.29	21.91	21.03	26.29
3	100.00	180.00	3.336	2359.74	1.80	0.960	159.46	20.30	21.93	21.05	26.31

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Consultant's Representative

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PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	M/S Sathya constructions
Name of Work	:	Asphalting to Roads and Improvements to Drains at Defence Layout and Ashrama Road in ward No 06 Byatarayanapura Sub Division.
No.of Sample Tested	:	3
Date of Testing	:	28.11.2019
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}. 250mm Thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	100.00	180.00	3.372	2385.20	1.80	0.960	159.26	20.28	21.90	21.02	26.28
2	100.00	180.00	3.446	2437.55	1.80	0.960	159.48	20.31	21.93	21.05	26.32
3	100.00	180.00	3.434	2429.06	1.80	0.960	159.54	20.31	21.94	21.06	26.33

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NABL ACCREDITED AS PER ISO/IEC 17025:2017

Job No.: CECTC/SC/Ward No.95/2019-20

Date: 20.11.2019

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Bruhat Bengaluru Mahanagara Palike,** Bangalore.
Contractor : **M/s. Sathya Constructions.**
Name of Work : Improvements to Road and Drains at Fathima Layout Main Road in Ward No.06 Byatarayanapura Sub Division.
Sample Identification : 8mm, 10mm Fe 500 TMT Bars
Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test: : 20.11.2019

SLNo	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
			0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	8	0.400	529	574	17
2	10	0.622	551	593	18

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For Civil Experts

Authorised Signature

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Kononakunte, Bangalore - 560 062

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to Roads and drains at Fathima Layout Main Road in ward No. 06 Byatarayanapura Sub Division
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M S Sathya constructions

SPECIFIC GRAVITY AND WATER ABSORPTION FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand M sand)	Proposed Use	concrete
Location/Source	At Site/Plant	Date of Sampling	22.11.2019
Period of Soaking	24 hours	Date of Testing	22.11.2019

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	646	678	658	
B	Weight of oven - dry sample gm.	638	668	646	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1682	1702	1690	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.669	2.661	2.658	2.663
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.254	1.497	1.858	1.536

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to Roads and drains at Fathima Layout Main Road in ward No. 06 Byatarayanapura Sub Division.
Consultants	Tejus Consultants, Bangalore
Contractor	M/S Sathya constructions

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Sample Location	At Site/Plant	Date of Sampling	22.11.2019
		Date of Testing	22.11.2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	208	208	6.93	93.07	90 - 100
2.36 mm	306	514	17.13	82.87	75 - 100
1.18 mm	426	940	31.33	68.67	55 - 90
0.600 mm	482	1422	47.40	52.60	35 -59
0.300 mm	712	2134	71.13	28.87	8-30
0.150 mm	630	2764	92.13	7.87	0 - 10
Pan	236	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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Test Report on Cement

ect	Improvements to Roads and drains at Fathima Layout Main Road in ward No. 06 Byatarayanapura Sub Division.
nt	Bruhat Bangalore Mahanagar Palike
sultant	TEJUS CONSULTANTS
tractor	M/S Sathya constructions
ple ID	Cement
e of ple ted	22.11.2019
ple plied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	38 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	362 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

oject	Improvements to Roads and drains at Fathima Layout Main Road in ward No. 06 Byatarayanapura Sub Division.
ent	Bruhat Bangalore Mahanagar Palike
nsultant	TEJUS CONSULTANTS
ntractor	M/S Sathya constructions
ade of ncrete:	M20
e of cube:	150x150x150 mm
ference IS de:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	22.11.2019	29.11.2019	7 days	8.120	22500	282	12.53	12.74
2	22.11.2019	29.11.2019	7 days	8.130	22500	286	12.71	
3	22.11.2019	29.11.2019	7 days	8.140	22500	292	12.98	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

ect	Improvements to Roads and drains at Fathima Layout Main Road in ward No. 06 Byatarayanapura Sub Division.
nt	Bruhat Bangalore Mahanagar Palike
sultant	TEJUS CONSULTANTS
tractor	M/S Sathya constructions
de of crete:	M20
of cube:	150x150x150 mm
erence IS e:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	22.11.2019	20.12.2019	28 days	8.130	22500	432	19.20	19.11
2	22.11.2019	20.12.2019	28 days	8.138	22500	428	19.02	
3	22.11.2019	20.12.2019	28 days	8.146	22500	430	19.11	

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Test Report on Cement

Project	Improvements to Roads and drains at Fathima Layout Main Road in ward No. 06 Byatarayanapura Sub Division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S Sathya constructions
Sample ID	Cement
Date of Sample Tested	23.11.2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	36 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	358 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to Roads and drains at Fathima Layout Main Road in ward No. 06 Byatarayanapura Sub Division.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/S Sathya constructions

SPECIFIC GRAVITY AND WATER ABSORPTION
FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Location/Source	At Site/Plant	Date of Sampling	23.11.2019
Period of Soaking	24 hours	Date of Testing	23.11.2019

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	650	678	658	
B	Weight of oven - dry sample gm.	642	670	646	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1682	1701	1690	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.642	2.659	2.658	2.653
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.246	1.194	1.858	1.433

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to Roads and drains at Fathima Layout Main Road in ward No. 06 Byatarayanapura Sub Division.
Consultants	Tejus Consultants, Bangalore
Contractor	M/S Sathya constructions

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Sample Location	At Site/Plant	Date of Sampling	23.11.2019
		Date of Testing	23.11.2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	206	206	6.87	93.13	90 - 100
2.36 mm	312	518	17.27	82.73	75 - 100
1.18 mm	410	928	30.93	69.07	55 - 90
0.600 mm	482	1410	47.00	53.00	35 -59
0.300 mm	762	2172	72.40	27.60	8-30
0.150 mm	636	2808	93.60	6.10	0 - 10
Pan	192	3000			-

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to Roads and drains at Fathima Layout Main Road in ward No. 06 Byatarayanapura Sub Division.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/S Sathya Construction
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete
Sample Location	Plant/At site	Date of Sampling	23.11.2019
		Date of Testing	23.11.2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	252	252	2.52	97.48	95 - 100
10.00 mm	4838	5090	50.90	49.10	25 - 55
4.75 mm	4228	9318	93.18	6.82	0 - 10
Pan	682	10000			

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to Roads and drains at Fathima Layout Main Road in ward No. 06 Byatarayanapura Sub Division.
Consultants	TEJUS CONSULTANTS
Contractor	M/S Sathya Construction
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	CONCRETE	
Sample Location	At Site/Plant	Date of Sampling	23.11.2019	
		Date of Testing	23.11.2019	

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	558	558	5.58	94.42	90-100
10.0	4652	5210	52.10	47.90	40-85
4.75	4562	9772	97.72	2.28	0-10
Pan	228	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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29.11.19
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AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4)

Project	Improvements to Roads and drains at Fathima Layout Main Road in ward No 06 Byatarayanapura Sub Division		
Client	BRUHAT BANGALORE MAHANAGARA PALIKE		
Consultant	M/s Tejus Consultants		
Contractor	M/s Sathya Constructions		
Proposed Use	WMM	Date of Sampling	16.12.2019
Sample Location	At plant	Date of Testing	16.12.2019

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	360.00	352.00	356.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	274.00	268.00	272.00	
3	Wt of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	86.00	84.00	84.00	
4	Aggregate Impact Value (%)	(Wc/Wa)* 100	23.89	23.86	23.60	
5	Average Aggregate impact value	(%)	23.78			Max - 30 %

Remarks : ✓ Satisfactory / Not Satisfactory

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FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Project :	Improvements to Roads and drains at Fathima Layout Main Road in ward No. 06 Byatarayanapura Sub Division.
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant :	M/s Tejus Consultants
Contractor:	M/S Sathya constructions

Type of Material	BC		Proposed Use	BC
Sample Location	At plant		Date of Sampling	01.01.2020
			Date of Testing	01.01.2020

Size of aggregate		Flakiness Index		Elongation Index	
Passing through IS sieve, mm	Retained on IS sieve, mm	Total wt. of aggregate retained on sieves (A) gms.	Wt. of aggregate passing from Flakiness gauge (B) gms	Wt. of aggregate retained on Flakiness gauge (C) gms	Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	626	70	556	65
16.0	12.5	1212	110	1132	86
12.5	10.0	532	70	462	62
10.0	6.3	500	50	450	50
Total		2900	300	2600	263

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.34
Elongation Index(%):	10.12
Combined FI+EL (%)	20.46

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FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Project :	Improvements to Roads and drains at Fathima Layout Main Road in ward No. 06 Byatarayanapura Sub Division.
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant :	M/s Tejus Consultants
Contractor:	M/S Sathya constructions

Type of Material	BC		Proposed Use	BC
Sample Location	At plant		Date of Sampling	01.01.2020
			Date of Testing	01.01.2020

Size of aggregate		Flakiness Index		Elongation Index	
Passing through IS sieve, mm	Retained on IS sieve, mm	Total wt. of aggregate retained on sieves (A) gms.	Wt. of aggregate passing from Flakiness gauge (B) gms	Wt. of aggregate retained on Flakiness gauge (C) gms	Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	626	70	556	65
16.0	12.5	1212	110	1132	86
12.5	10.0	532	70	462	62
10.0	6.3	500	50	450	50
Total		2900	300	2600	263

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.34
Elongation Index(%):	10.12
Combined FI+EL (%)	20.46

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GRADATION FOR BC
(As per MORT&H 500-18,Grading-2)

Name of Work	:	Improvements to Roads and drains at Fathima Layout Main Road in ward No. 06 Byatarayanapura Sub Division.
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	M/S Sathya constructions
Date of Testing	:	01.01.2020
Type of Mix	:	BC
Sample I/D	:	BC3

Sample Location:	At plant	Date of Sampling:	01.01.2020
Type of material & Purpose:	BC	Date of testing:	01.01.2020
		Oven Dry Wt (gms):	1200.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	146	146.0	12.17	87.83	79 - 100
9.50	122	268.0	22.33	77.67	71 - 95
4.75	214	482.0	40.17	59.83	53 - 71
2.360	148	630.0	52.50	47.50	42 - 58
1.180	138	768.0	64.00	36.00	34 - 48
0.600	104	872.0	72.67	27.33	26 - 38
0.300	96	968.0	80.67	19.33	18 - 28
0.150	76	1044.0	87.00	13.00	12 - 20
0.075	68	1112.0	92.67	7.33	4 - 10
Pan	88.0				
Total	1200.0				

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BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

Name of Work :	Improvements to Roads and drains at Fathima Layout Main Road in ward No. 06 Byatarayanapura Sub Division.
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant :	M/s Tejus Consultants
Contractor :	M/S Sathya constructions
Date of Testing :	01.01.2020
Type of Mix :	BC
Sample I/D :	BC1

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1 Weight of Mixture before extraction, g	864	842
2 Weight of Mixture after extraction, g	818	798
3 Weight of Bitumen	46	44
4 Weight of filter paper before extraction, g	2.00	2.00
5 Weight of filter paper after extraction, g	4.10	4.00
6 Weight of fines, g	1.40	1.70
7 Weight of Bitumen & fines	17.40	45.70
8 Bitumen content in %	5.49	5.43
9 Average Bitumen content in %	5.46	
10 Minimum Bitumen content in %	5.40	

GRADATION FOR BC AFTER EXTRACTION

(As per MORT&H 500-18,Grading-2)

Sample Location:	At site	Date of Sampling:	01.01.2020
Type of material & Purpose	BC	Date of testing:	01.01.2020
		Oven Dry Wt.(gms):	818.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	84	84.0	10.27	89.73	79 - 100
9.50	112	196.0	23.96	76.04	71 - 95
4.75	118	314.0	38.39	61.61	53 - 71
2.360	124	438.0	53.55	46.45	42 - 58
1.180	82	520.0	63.57	36.43	34 - 48
0.600	68	588.0	71.88	28.12	26 - 38
0.300	72	660.0	80.68	19.32	18 - 28
0.150	51	711.0	86.92	13.08	12 - 20
0.075	48	759.0	92.79	7.21	4 - 10
Pan	59.0				
Total	818.0				

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DETERMINATION OF RATE OF SPREAD TACK COAT

Name of Work :	Improvements to Roads and drains at Fathima Layout Main Road in ward No. 06 Byatarayanapura Sub Division.
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant :	M/s Tejus Consultants
Contractor :	M/S Sathya constructions
Date of Testing :	01.01.2020
Type of Mix :	Tack coat
Sample I/D :	1

Determination	Unit	Test No		
		1	2	3
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.786	0.790	0.764
Final weight of plate after application of tack Coat (c)	Kg	0.809	0.813	0.787
Weight of tack Coat (d=c-b)	Kg	0.023	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.250	0.256	0.251
Average	Kg/sq.m	0.252		
Specified Limit	Kg/sq.m	0.250 Kg/sq.m		

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